

## **NWIRP/NG Site-June 22, 2015 Quarterly Meeting Agenda (in black) and Meeting Notes (in blue)**

### **Attendees:**

Robert Schick, DEC-Director, DER  
Michael Ryan, DEC-Deputy Director, DER  
Jim Harrington, DEC-Director, Remedial Bureau A, DER  
Stan Carey, Superintendent, MWD  
Paul Granger, H2M (representing MWD)  
Michael Boufis, Superintendent, BWD  
Richard Humann, H2M (representing BWD)  
Ralph Atoria, Commissioner, SFWD  
Francis Koch, Superintendent SFWD  
Gary Loesch, H2M (representing SFWD)  
Doug Garbarini, EPA-Branch Chief, NYRB  
Pete Mannino, EPA-Section Chief, WNYRS  
Participating by phone:  
Lloyd Wilson, NYSDOH  
Bill Gilday, NYSDOH  
Charlotte Bethoney, NYSDOH  
Dan St. Germain, HDR  
Michael Lehtinen, HDR  
??others from State and State contractor (HDR)

1. Status of efforts regarding Chapter 543 Of the Laws of 2014 – evaluation of options relative to the groundwater plume associated with the former Navy/Grumman Bethpage facility
  - a. Requirements of law
  - b. Introduction of DEC consultant (participating via phone)
  - c. Scope of work and schedule
  - d. Discussion
2. ONCT Effectiveness
  - a. NG overview of the effectiveness evaluation. NG provided a power point presentation (attached) that summarized information in their October 2014 PRR and also provided an update to the October PRR that incorporated additional more recent data including Navy data. The presentation focused on the significant decreases in concentrations in specific wells and the bifurcation of the plume as indicators of the effectiveness of the system.
  - b. BWD questions regarding basis for DEC approval of workplan and recent Navy data. NG's presentation included an update of their PRR evaluation of the effectiveness of the system that included the Navy data and further explained the rationale for data points used in the evaluation.
  - Suitability of the approved elevation, number and location of data points used in the evaluation.

- Suitability of data set used in the evaluation (2011-2013). Consideration of Navy data for VPBs 142, 144, 156 and MW RE108D2 (obtained after the Arcadis 2011-2013 data) with respect to ONCT effectiveness.
  - c. **Navy follow up work.** The Navy provided a power point presentation (attached) that included information regarding additional borings planned upgradient of the R-108 hotspot.
3. **Status of additional "Hotspot" work.** The Navy provided a power point presentation that summarized the status of existing and planned work on the hotspot delineation and the Plant 6 pilot study (attached)
- **Plant 6 Pilot Study.** The status of the BWD approvals to enter into an agreement with the Navy for the pilot study was discussed. Under the terms of the agreement BWD would be considered a subcontractor to the Navy so that BWD could receive appropriate compensation for their expenses/resources utilized. BWD was still in the process of obtaining the necessary approvals (anyone have more info). BWD and the Navy indicated it was important to perform the pilot this summer. NYSDOH questioned whether it was appropriate to utilize/distribute water pumped from Well 6-2 during the pilot study. BWD explained that Well 6-2 would not be utilized any differently during the pilot than it typically would be during this period; that the well would typically be used at close to capacity due to demand and constraints on other BWD wells. NYSDOH continued to express concern and requested a copy of the plan. The group agreed that it might be best to have a separate call to discuss NYSDOH concerns and that the issue may need to be discussed at more senior levels. BWD also noted that it intended to upgrade the treatment system for Plant 6-2; that this would involve shutting down the deep well for up to two years (though they were working on ways to shorten the down time) and that the shutdown could occur within six months.
  - **Additional delineation.** Plans for additional delineation and investigation were addressed by the Navy as part of the power point presentation.
  - **Plans for addressing contamination not captured by 6-2.** The Navy indicated that the pilot work would enable them to better define the area of the plume that would be captured by the continuous operation of Well 6-2; the Navy noted that a short-term pumping test and capture zone analysis conducted in 2013 suggest that the well may be able to capture most of the plume (85-90%) that is above 1ppm. It was noted that EPA's expectation was that the contamination at TT-101 (greater than 500 ppb) will need to be addressed. The Navy noted that it had presented this matter to its management and was awaiting a direction from management.
  - **Status of NG submittals required pursuant to OU 2 Consent Order.** See attached NG power point presentation
  - **NG/Navy coordination on Hotspot work.** Both the Navy and NG covered this topic in their attached presentations and noted that discussions on coordination were continuing.
4. **Disposition of treated water if well 6-2 utilized to capture mass of the hotspot.** It was noted that BWD is interested in getting water from outside the plume and BWD expressed a willingness to allow another party to lease or otherwise take over the infrastructure at the wells to utilize them for addressing the plume under certain conditions. If well 6-2 needs to continue to be used for water supply purposes, and the extent of withdrawals exceeds the current status of withdrawals NYSDOH would have concerns about the excess water being distributed. The use of recharge basins to the south of the treatment system was discussed.

5. **Discussion of potential for use of wells at BWD Plants 4,5,6 should BWD cease using them as public water supply wells.** The parties recognized the significance of the existing BWD systems and the need to assess the long-term viability of the infrastructure. It was suggested that water could be extracted from the hot spot and piped back for treatment at one of the facilities for treatment.
6. **Status of sentinel well installation.** The Navy indicated that ??
7. **DEC follow up regarding 1,4-dioxane, perchlorate and radium 226 and 228 sampling performed to date and to be performed.** DEC indicated that it would perform radium 226 and 228 sampling and would share a proposed list of wells for sampling with all parties.  
Stan Carey requested a copy of the 1,4-dioxane data collected by NG (Note that the Navy and NG have indicated they will sample their wells for 1,4-dioxane using the low detection limit method).  
The water districts requested a copy of the perchlorate data used by DEC in their evaluation.
8. **Data sharing/timing.** The parties agreed that timing of data sharing had been adequate/improved and is currently working to their satisfaction.
9. **Community outreach**
  - **Drilling, access.** The parties agreed that the modifications to procedures for access and notification of the community appears to be working. Complaints have declined significantly.
  - **Next RAB meeting.** The next RAB meeting is August 11. It was agreed that, similar to the last RAB meeting, it would be beneficial to have participation of the water districts and DEC at the beginning of the meeting to allay potential concerns about the quality of the water entering the water supply.
10. **Next meeting date (September).** It was agreed that the next meeting should be scheduled...(did we agree second or third week in October??